



12SX7-GT

12SX7-GT TWIN-TRIODE AMPLIFIER

For use with 12-cell storage-battery supply

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 12.6 ac or dc volts

Current 0.3 amp

Direct Interelectrode Capacitances (Approx.):⁰

	<u>Triode Unit No.1</u>	<u>Triode Unit No.2</u>	
Grid to Plate	3.6	3.6	μf
Grid to Cathode	3.0	2.8	μf
Plate to Cathode	0.8	1.2	μf

Mechanical:

Mounting Position Any

Maximum Overall Length 3-5/16"

Maximum Seated Length 2-3/4"

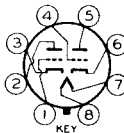
Maximum Diameter 1-5/16"

Bulb T-9

Base Intermediate Shell Octal 8-Pin

Basing Designation for BOTTOM VIEW 8BD

- Pin 1 - Grid of Unit No.2
- Pin 2 - Plate of Unit No.2
- Pin 3 - Cathode of Unit No.2
- Pin 4 - Grid of Unit No.1



- Pin 5 - Plate of Unit No.1
- Pin 6 - Cathode of Unit No.1
- Pin 7 - Heater
- Pin 8 - Heater

CLASS A₁ AMPLIFIER

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID VOLTAGE:		
Negative bias value	50 max.	volts
Positive bias value	0 max.	volts
CATHODE CURRENT	20 max.	ma.
PLATE DISSIPATION	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	26.5	90	250	volts
Grid Voltage:				
From a fixed supply of	-	0	-8	volts
From a grid resistor of	0.05	-	-	megohm
Amplification Factor	21	20	20	
Plate Resistance	11500	6700	7700	ohms

⁰ with no external shield.

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Transconductance	1800	3000	2600	μ mhos
Plate Current.	1.8	10	9.0	ma.

Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance per unit. 1.0 max. megohm

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6F8-G.

*The curves under Types 6J5 and 6SN7-GT
also apply to each unit of the
12SX7-GT*



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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

12SX7-GT

